

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention will now be described, by way of an example, with references to the accompanying drawings, wherein like elements are numbered alike in the several figures in which:

FIGURE 1 is a simplified block diagram depicting a motor control system with voltage-profiling in accordance with an exemplary embodiment;

FIGURE 2 depicts an illustrative motor torque at different voltages if the torque is allowed to exceed the maximum current/voltage;

FIGURE 4 3 is a simplified block diagram depicting a voltage-profiling algorithm in accordance with an exemplary embodiment;

FIGURE 4 depicts an illustrative motor torque at different voltages if the torque is limited to the maximum current/voltage;

FIGURE 5A show an exemplary torque velocity profile for a motor in all four quadrants of operation; and

FIGURE 5B show the operation voltage boundaries for this motor.

REMARKS

Applicants would like to express appreciation to the Examiner for entertaining the telephonic interview resulting in this response. During the interview, Applicants' attorney discussed with the Examiner that the representation of figure 3 of the original application provides further information about block 100 within figure 1. The voltage-profiling algorithm, rather than representing an entirely different embodiment of the control system represented in figure 1, is a part of the embodiment of figure 1. For this reason, it is believed by Applicants that differing species are not illustrated in the drawings and that each of the claims of the present application reads on the same species. Therefore, it is believed that all of the claims should be examined in this single application. In order to avoid the possibility of a non-

responsive paper, Applicants provisionally elect figure 1 and note that all claims are readable thereon; but as noted, believe that such an election, as well as the original restriction, should not exist.

Further, Applicants note that the specification of the application has been amended hereinabove to remedy an omission and typographical error in the statements made in the brief description of the drawings. The description of figure 4 in the brief description is actually a description of the figure marked figure 3. The figure marked figure 4 inadvertently does not include a description. The description is now provided above.

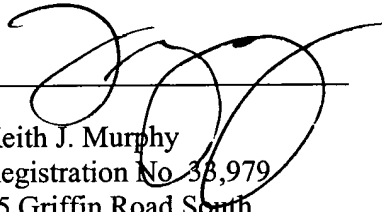
At this point, Applicants anticipate that the requirement for election will be withdrawn in the next paper issued by the examiner.

In the event the Examiner has any queries regarding the instantly submitted paper, Applicants' attorney respectfully requests the courtesy of a telephone conference to discuss any matters in need of attention.

If there are additional charges with respect to this matter or otherwise, please charge them to Deposit Account No. 06-1130.

Respectfully Submitted,

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